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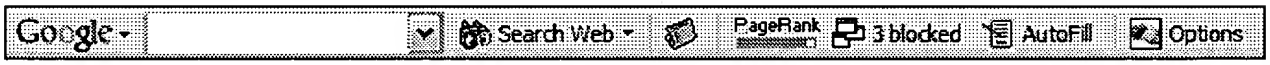

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Low-overhead Time-Triggered Group Membership - Katz, Lincoln, al. (1997) (Correct) (12 citations)
2 bandwidth are perceived to be too costly. **Wireless** communication is viewed as impractical due to that a faulty processor will be promptly **diagnosed** and removed from the agreed group of the agreed group of processors, and will also **diagnose** itself as faulty. The protocol is correct under www.csl.sri.com/reports/postscript/wdag97.ps.gz

Diagnosis And Communication In Distributed Systems - Sengupta (1998) (Correct) (6 citations)
are motivated by the diagnosis of failures in a **wireless** LAN. 1 Introduction We are interested in for coordinating vehicle systems [5, 10] and **wireless** local area networks [3, 6]These systems are spatially separated sites with each site having a **diagnoser** that observes some of the events generated by robotics.eecs.berkeley.edu/~godbole/wodes98.ps

Distributed System Management via Elastic Servers - Goldszmidt (1993) (Correct) (5 citations)
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Using End-to-End Statistics to Distinguish Congestion and.. - Biaz, Vaidya (1997) (Correct) (5 citations)
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Adtranz: A Mobile Computing System for Maintenance.. - Siewiorek.. (1998) (Correct) (4 citations)
Wearable/ Mobile computers combined with the **wireless** technology improve efficiency and accuracy of [1]2]3]4]5] combined with the **wireless** technology improve efficiency and accuracy of the other one can use the mobile computer to **diagnose** the problem, Figure 1. The technician uses c2000.cc.gatech.edu/classes/cs8113c_99_spring/readings/siewiorek.pdf

Distinguishing Congestion and Corruption Losses: A Negative.. - Biaz, Vaidya (1997) (Correct) (3 citations)
Report 97-August 9, 1997 Abstract On **wireless** links, the rate of corruption losses can be wired networks, this assumption is good. But on **wireless** links, losses occur more frequently due to to exactly predict congestion. You have only to **diagnose** the source of a loss. The idea is to look at www.cs.tamu.edu/people/saadb/tech97-009.ps

Smart Energy Distribution And Consumption: Information.. - Rabaey Arens Federspiel (2001) (Correct) (2 citations)
Such devices must be connected by short-range **wireless** networks as well as by very high-bandwidth, Societal-scale information systems, consisting of **wireless** sensors/actuators enable the control of or under attack. The SIS must configure, install, **diagnose**, maintain, and improve itself -this applies bwrc.eecs.berkeley.edu/Research/Pico_Radio/../../Publications/2001/samrt_energy_dist_consump/SmartEnergy.pdf

Measuring Traffic on the Wireless Medium: Experience and.. - Yeo, Banerjee, Agrawala (2002) (Correct) (2 citations)
1 Measuring Traffic on the **Wireless** Medium: Experience and Pitfalls Jihwang Yeo, studies have examined traffic characteristics in **wireless** networks. Most of these measurements [1]6] useful when we want to emulate the protocol or **diagnose** problems of **wireless** networks. Third, sniffer www.cs.umd.edu/Library/TRs/CS-TR-4421/CS-TR-4421.pdf

Diagnosis of Sensor Networks - Jaikaeo, Srisathapornphat, Shen (2001) (Correct) (1 citation)

purpose computing with multiple sensing and **wireless** communication capability [1]As sensor nodes in Fig. 1(a)For sensor networks relying on **wireless** communication, this may result in considerable of the sensor networks can be monitored and **diagnosed** to ensure proper behavior. For example, knowing
www.cis.udel.edu/~degas/Publications/jaikaeo01diagnosis.ps

A Frequency-Domain Approach to Crosstalk Identification.. - Galli, Valenti, Kerpez (2001) (Correct) (1 citation)
now increasing [4]5]Multiuser techniques for **wireless** systems have been finely honed to improve systems have been finely honed to improve **wireless** capacity, and it is now time to apply these likely to occur and may be extremely difficult to **diagnose**. A thorny issue is gaining access to all the
www.argreenhouse.com/papers/sgalli/XtalkID.pdf

MASSA: Mobile Agents Security through Static/Dynamic Analysis - Alessandro Orso College (2002) (Correct) (1 citation)

retrieval [8]to network management [2]to **wireless**-based services for dynamically reconfigured of MASs, and static, white-box techniques to **diagnose** early the possible presence of such threats. We
www.cc.gatech.edu/aristotle/Publications/Papers/wsem01.ps

Sensor-Based Information Appliances - Petriu, Georganas, Petriu.: (2000) (Correct) (1 citation)
a message directly to the manufacturer over a **wireless** connection to the network. The manufacturer's phone, television, computer, Web cams, **wireless** touch-pads, health maintenance devices, to the network. The manufacturer's systems **diagnose** the problem and transmit a fix back to the
www.site.uottawa.ca/~petriu/IM-Mag00-iSense-www.pdf

Diagnosing InterOperability Problems by Enhancing Constraint.. - Sqalli, Freuder (1998) (Correct) (1 citation)
Interface (FDDI)Network Management, Token Ring, **Wireless**, and others. Interoperability testing is of the main challenges at IOL is how to debug and **diagnose** interoperability problems in a timely manner. At time in diagnosing problems that the IOL has **diagnosed** before or in solving problems that are very
ftp.cs.unh.edu/pub/csp/Papers/dx98-msqalli.ps.gz

Wireless Measurement and Analysis on - Hpwren Todd Hansen (Correct)
Acm Sigcomm Internet Measurement Workshop 2001 1 **Wireless** Measurement And Analysis On Hpwren Todd Hansen, gives a brief description of the High Performance **Wireless** Research and Education Network (HPWREN) use equipment to monitor network performance, to **diagnose** problems, to measure network activities in a way
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RED for Improving TCP over Wireless Networks - Saad Biaz Xia (Correct)
RED for Improving TCP over **Wireless** Networks Saad Biaz Xia Wang Department of dramatically when a TCP connection traverses a **wireless** link on which packets may be lost due to Notification (ECN [9, 8, 17]to empower TCP to **diagnose** correctly losses and react appropriately. ECN is
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Characterizing the IEEE 802.11 Traffic: The - Wireless Side Jihwang (Correct)
Characterizing the IEEE 802.11 Traffic: The **Wireless** Side Jihwang Yeo, Moustafa Youssef, Ashok studies on measurement and characterization of **wireless** LANs have been performed recently. Most of
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Exogenous-Loss Awareness in Queue Management - Toward Global Fairness (2003) (Correct)
to excessive losses as they traverse noisy **wireless** channels. To deal with this heterogeneity, approach. Examples of this are abound: from **wireless** TCP research that attempts to contain **wireless** losses could be mitigated by enabling a source to **diagnose** the cause of packet losses and to react
www.cs.bu.edu/techreports/ps/2003-026-xqm.ps

IEEE Network . January/February 2004 44.. - Uilders Of Large-Scale (2004) (Correct)
of any meeting she has attended to be sent to her **wireless** PDA, but only if she does not log in to the scenario were PDAs connected by an (expensive) **wireless** link with limited bandwidth. The goals of the notifications continue it should be possible to **diagnose** the specific cause. This must be carried out as
www.cl.cam.ac.uk/users/bns21/papers/IEEE_Network_Composite_Event_2004.pdf

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Chirwa, L.C.; Hammond, P.A.; Roy, S.; Cumming, D.R.S.;
Biomedical Engineering, IEEE Transactions on , Volume: 50 , Issue: 4 , April 2003
Pages:484 - 492

[Abstract] [PDF Full-Text (691 KB)] IEEE JNL

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2 **The AT&T Labs broadband fixed wireless field experiment**
Byoung-Jo Kim; Shankaranarayanan, N.K.; Henry, P.S.; Schlosser, K.; Fong, T.K.;
Communications Magazine, IEEE , Volume: 37 , Issue: 10 , Oct. 1999
Pages:56 - 62

[Abstract] [PDF Full-Text (908 KB)] IEEE JNL

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3 **Applications of wireless research to real industrial problems. Applications of mobile computing and communication**
Bruegge, B.; Bennington, B.;
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4 **MENeT: a monitoring and protocol analysis tool for LAN**
Junejo, N.; Junejo, N.A.; Unar, M.A.;
Advances in Wired and Wireless Communication, 2004 IEEE/Sarnoff Symposium on , 26-27 Apr 2004
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Pages:1627 - 1632 vol.5

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10 **Empowering mobile healthcare providers via a patient benefits authorization service**
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Chessa, S.; Santi, P.;

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[Abstract] [PDF Full-Text (257 KB)] IEEE CNF

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14 **IS-95 CDMA forward link optimization tool**
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15 **Automatic test case generation of wireless interface protocols for next generation mobile telecommunications**
Dong-Won Jang; Sang-Kook Jeong; Myung-Hee Kim; Han-Kyoung Kim;
Communication Technology Proceedings, 1998. ICCT '98. 1998 International Conference on , 22-24 Oct. 1998
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1 Wireless intraoffice networks

K. Pahlavan

July 1988 **ACM Transactions on Information Systems (TOIS)**, Volume 6 Issue 3

Full text available: pdf(1.98 MB) Additional Information: full citation, abstract, references, citings, index terms, review

An overview of the existing and growing demands for wireless office information networks is provided, and the existing research activities are assessed in some detail. The radio frequency (RF) and infrared (IR) communication technologies are examined as candidates for wireless intraoffice communications. The available bandwidths, according to federal regulations and characteristics of the channel for RF communications, are given. Digital narrow-band and wideband spread-spectrum RF communica ...

2 Wireless Andrew: experience building a high speed, campus-wide wireless data network

Bernard J. Bennington, Charles R. Bartel

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: pdf(1.48 MB) Additional Information: full citation, references, citings, index terms

3 Wireless Andrew: building a high speed, campus-wide wireless data network

Bernard J. Bennington, Charles R. Bartel

January 2001 **Mobile Networks and Applications**, Volume 6 Issue 1

Full text available: pdf(159.87 KB) Additional Information: full citation, references, index terms

Keywords: Andrew, WaveLAN, integration, wireless network

4 Research challenges in wireless networks of biomedical sensors

Loren Schwiebert, Sandeep K.S. Gupta, Jennifer Weinmann

July 2001 **Proceedings of the 7th annual international conference on Mobile computing and networking**

Full text available: pdf(612.60 KB) Additional Information: full citation, abstract, references, citings, index

terms

Implanted biomedical devices have the potential to revolutionize medicine. *Smart sensors*, which are created by combining sensing materials with integrated circuitry, are being considered for several biomedical applications such as a glucose level monitor or a retina prosthesis. These devices require the capability to communicate with an external computer system (base station) via a wireless interface. The limited power and computational capabilities of smart sensor based biological imp ...

5 Energy-aware system design: A survey of techniques for energy efficient on-chip communication

Vijay Raghunathan, Mani B. Srivastava, Rajesh K. Gupta
June 2003 **Proceedings of the 40th conference on Design automation**

Full text available: pdf(94.50 KB) Additional Information: full citation, abstract, references, citings, index terms

Interconnects have been shown to be a dominant source of energy consumption in modern day System-on-Chip (SoC) designs. With a large (and growing) number of electronic systems being designed with battery considerations in mind, minimizing the energy consumed in on-chip interconnects becomes crucial. Further, the use of nanometer technologies is making it increasingly important to consider reliability issues during the design of SoC communication architectures. Continued supply voltage scaling ha ...

Keywords: communication architectures, energy efficient design, low power design, power management, system-on-chip design

6 HPCA-8 work-in-progress session: Monitoring and diagnosing computer systems by radio communication

Hans Eberle
June 2002 **ACM SIGARCH Computer Architecture News**, Volume 30 Issue 3

Full text available: pdf(183.66 KB) Additional Information: full citation, abstract, references, index terms

A radio network is described for configuring, monitoring, and diagnosing the components of a computer system. Using radio communication offers many advantages: (a) it removes dependencies between the monitoring and monitored systems as orthogonal interconnects are used; (b) by broadcasting information it offers direct communication between the monitoring and monitored devices that does not rely on any intermediate communication devices; (c) it does not rely on a physical interconnect exposed to ...

Keywords: interconnection structures, radio communication, reliable systems

7 A situated computing framework for mobile and ubiquitous multimedia access using small screen and composite devices

Thai-Lai Pham, Georg Schneider, Stuart Goose
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: pdf(952.99 KB) Additional Information: full citation, abstract, references, citings, index terms

In recent years, small screen devices, such as cellular phones or Personal Digital Assistants (PDAs), enjoy phenomenal popularity. PDAs can be used to complement traditional computing systems to access personal multimedia information beyond the usage as digital organizers. However, due to the physical limitations accessing rich multimedia contents and diverse services using a single PDA is more difficult. Hence, the Situated Computing Framework (SCF) research project at Siemens Corporate Rese ...

Keywords: WWW, composite devices, mobile and ubiquitous computing, situated computing

8 GroupWeb (video program) (abstract only): a groupware Web browser
Saul Greenberg, Mark Roseman
November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Full text available: pdf(422.32 KB) Additional Information: full citation, abstract, references, citings, index terms

GroupWeb is a prototype browser that allows group members to visually share and navigate World Wide Web page in real time. Its groupware features include document and view slaving for synchronizing information sharing, telepointers for enacting gestures, and relaxed "what you see is what I see" views to handle display differences. A groupware text editor lets groups create and attach annotations to pages. An immediate application of GroupWeb is as a presentation tool for real ti ...

9 Composite Device Computing Environment: A Framework for Situated Interaction Using Small Screen Devices
Thai-Lai Pham, Georg Schneider, Stuart Goose, Arturo Pizano
January 2001 **Personal and Ubiquitous Computing**, Volume 5 Issue 1

Full text available: pdf(97.91 KB) Additional Information: full citation, abstract, index terms

Contemporary small screen devices are used as personal companion or communication devices. However, their physical dimensions constrain the processing, communication and user interface capabilities. Thus, rich content presentation and diverse service access via small screen appliances is limited accordingly. This paper introduces the Composite Device Computing Environment (CDCE) that provides a framework for dynamically detecting and utilising surrounding computing resources to overcome the smal ...

10 Collaborative wearable systems research and evaluation (video program)(abstract only)
Jane Siegel, Robert E. Kraut, Mark D. Miller, David J. Kaplan, Malcolm Bauer
November 1996 **Proceedings of the 1996 ACM conference on Computer supported cooperative work**

Additional Information: full citation, abstract, index terms

An interdisciplimary research group at Carnegie Mellon University (CMU) is investigating the design and usefulness of mobile CSCW systems for the support of distributed diagnosis, repair, and redesign of large vehicles, such as aircraft and trains. These systems incorporate diagnostic aids, on-line maintenance manuals, schematic drawings, and telecommunications that allow workers to access both stored information and interactive help from remote experts. This videotape illustrates the pro ...

11 Mobility Models: On the accuracy of MANET simulators
David Cavin, Yoav Sasson, André Schiper
October 2002 **Proceedings of the second ACM international workshop on Principles of mobile computing**

Full text available: pdf(139.17 KB) Additional Information: full citation, abstract, references, citings, index terms

The deployment of wireless applications or protocols in the context of Mobile Ad-hoc NETworks (MANETs), often requires to step through a simulation phase. For the results of the simulation to be meaningful, it is important that the model on which is based the simulator matches as closely as possible the reality. In this paper we present the simulation results of a straightforward algorithm using several popular simulators (OPNET Modeler, NS-

2, GloMoSim). The results tend to show that significant ...

Keywords: GloMoSim, MANET, NS-2, OPNET, accuracy, flooding, mobile ad-hoc networks, simulations, simulators

12 Poster presentations: Technology applied to address difficulties of Alzheimer patients and their partners

Janice Loh, Tomas Schietecat, Tsun Fai Kwok, Lucas Lindeboom, Peter Joore
June 2004 **Proceedings of the conference on Dutch directions in HCI**

Full text available: pdf(87.13 KB) Additional Information: full citation, abstract, references

This paper discusses how technological potential have brought true benefit to the lives of people with Alzheimer.Contextual scenarios that illustrate certain problems faced by Alzheimer patients in their daily lives have been mapped out, and a conceptual solution enabled by technology is proposed. A discussion on the feasibility of this solution and its implementation ensues.

Keywords: Alzheimer, GPS, GSM, communication, industrial design, patients and caregivers, tracking, user research

13 Utilizing mobile computing in the Wishard Memorial Hospital ambulatory service

Stuart Morton, Omran Bukhres
April 1997 **Proceedings of the 1997 ACM symposium on Applied computing**

Full text available: pdf(787.05 KB) Additional Information: full citation, references, index terms

Keywords: disconnection handling, distributed systems, medical patient database, mobile hosts, mobile transaction processing

14 Session 5B: Embedded tutorial: CAD solutions and outstanding challenges for mixed-signal and RF IC design: CAD solutions and outstanding challenges for mixed-signal and RFIC design

Domine Leenaerts, Georges Gielen, Rob A. Rutenbar
November 2001 **Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design**

Full text available: pdf(1.87 MB) Additional Information: full citation, abstract, references, index terms

This tutorial paper addresses the problems and solutions that are posed by the design of mixed-signal integrated systems on chip (SoC). These include problems in mixed-signal design methodologies and flows, problems in analog design productivity, as well as open problems in analog, mixed-signal and RF design, modeling and verification tools. The tutorial explains the problems that are posed by these mixed-signal/RF SoC designs, describes the solutions and their underlying methods that exist toda ...

15 Deployment and testbeds: Enhancement of a WLAN-based internet service in Korea

Youngkyu Choi, Jeongyeup Paek, Sunghyun Choi, Go Woon Lee, Jae Hwan Lee, Hanwook Jung
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Full text available: pdf(774.23 KB) Additional Information: full citation, abstract, references, index terms

A wireless LAN (WLAN)-based Internet service, called NESPOT, of Korea Telecom (KT), the biggest telecommunication and Internet service company in Korea, has been operational

since early 2002. As the numbers of subscribers and deployed access points (APs) increase, KT has been endeavoring to improve its service quality as well as the network management. In this paper, we introduce a joint effort between Seoul National University (SNU) and KT to achieve it. We have been addressing two major issues ...

Keywords: IEEE 802.11, LAN, hotspot service, wireless internet service provider (WISP)

16 Viewpoint: Folk computing
Ramesh Jain
April 2003 **Communications of the ACM**, Volume 46 Issue 4
Full text available: pdf(58.18 KB) html(13.93 KB) Additional Information: full citation, abstract, references, citings, index terms

Communicating through the natural human senses, not just theusual text and images, experiential environments can serve even the illiterate and impoverished in the remotest human societies.

17 Challenges: Challenge:: integrating mobile wireless devices into the computational grid
Thomas Phan, Lloyd Huang, Chris Dulan
September 2002 **Proceedings of the 8th annual international conference on Mobile computing and networking**
Full text available: pdf(204.77 KB) Additional Information: full citation, abstract, references, citings, index terms

One application domain the mobile computing community has not yet entered is that of grid computing -- the aggregation of network-connected computers to form a large-scale, distributed system used to tackle complex scientific or commercial problems. In this paper we present the challenge of harvesting the increasingly widespread availability of Internet connected wireless mobile devices such as PDAs and laptops to be beneficially used within the emerging national and global computational grid. T ...

Keywords: economic model, grid computing, mobile wireless computing, network clusters, pervasive computing

18 Special system-oriented section: the best of SIGMOD '94: Sleepers and workaholics: caching strategies in mobile environments (extended version)
Daniel Barbará, Tomasz Imieliński
October 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 4
Full text available: pdf(1.73 MB) Additional Information: full citation, abstract, references, citings

In the mobile wireless computing environment of the future, a large number of users, equipped with low-powered palmtop machines, will query databases over wireless communication channels. Palmtop-based units will often be disconnected for prolonged periods of time, due to battery power saving measures; palmtops also will frequently relocate between different cells, and will connect to different data servers at different times. Caching of frequently accessed data items will be an important techni ...

Keywords: caching, data management, information services, wireless

19 Havana: supporting application and channel dependent QoS in wireless packet networks
Javier Gomez, Andrew T. Campbell
January 2003 **Wireless Networks**, Volume 9 Issue 1

Full text available: pdf(325.55 KB) Additional Information: full citation, abstract, references, index terms

For wireless channels, interference mitigation techniques are typically applied at the packet transmission level. In this paper, we present the Havana framework which supports *integrated adaptive-QoS* in wireless packet networks by responding to impairments over multiple time scales that are present at the flow/session level. The Havana framework is based on three different control mechanisms that operate over distinct adaptation time scales. At the packet transmission time scale, a packet ...

Keywords: QoS, adaptive wireless networks

20 Focusing on user-to-product relationships: The development of mobile applications for patient education

Jane Wood, Alison Keen, Niren Basu, Simon Robertshaw

June 2003 **Proceedings of the 2003 conference on Designing for user experiences**

Full text available: pdf(117.56 KB) Additional Information: full citation, abstract, references

The International Centre for Digital Content explores the relationship of technology to societyóthrough present and emerging applications. This paper outlines ICDCís rapid application development methodology, focusing specifically on a current project partnership with Healthcare Services. The aim of this project is to provide the Primary Care Group (PCG) healthcare specialists with a suite of interoperable devices that can provide breast cancer patients with personalized educationa ...

Keywords: concept development, education, interoperable, learning, multi-channel delivery, user experience, user interface design, user testing